

**Faculty of Engineering & Technology****Differential Equations****Information :****Course Code :** EMP213**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Mechatronics Engineering**Instructor Information :**

| Title              | Name                           | Office hours |
|--------------------|--------------------------------|--------------|
| Lecturer           | Ahmed Mostafa Kamel Elsherbeny |              |
| Teaching Assistant | Akram Rabie Hamed Ragheb Tobar |              |

**Description :**

Functions of several variables; First order differential equations; Second order linear differential equation; Series solutions of differential equations; Special functions (Bessel Functions and Legendre polynomials); System of linear differential equations; Initial and boundary value problems; Introduction to partial differential equations; Applications of differential equation using MATLAB.